

AMENDMENTS TO THE CLAIMS

1. (Previously presented) Seed of soybean cultivar designated S52-U3 representative seed of said soybean cultivar having been deposited under ATCC Accession No: PTA-5164.
2. (Previously presented) A soybean plant, or a part thereof, produced by growing the seed of claim 1.
3. (Original) Pollen of the plant of claim 2.
4. (Original) An ovule of the plant of claim 2.
5. (Previously presented) A soybean plant, or parts thereof, having all the physiological and morphological characteristics of the plant according to claim 2.
- 6-7. (Canceled)
8. (Currently amended) Seeds produced by self-pollinating and growing the plant according to claim 2 or 5.
- 9-13. (Canceled)
14. (Previously presented) A tissue culture of regenerable cells of the soybean plant according to claim 2 or 5.
15. (Canceled)
16. (Previously presented) The tissue culture according to claim 14, wherein the cells of said tissue culture are from a plant part selected from the group consisting of a leaf, a pollen, an embryo, a root, a flower, a seed, a pod, and a stem.
17. (Previously presented) A method for producing a soybean seed comprising crossing a first parent soybean plant with a second parent soybean plant and harvesting the resultant soybean

seed, wherein said first or second parent soybean plant is the soybean plant according to claim 2 or a soybean plant having all the physiological and morphological characteristics of the plant according to claim 2.

18-35. (Canceled)

36. (Currently amended) A method for producing a S52-U3-derived soybean plant, comprising:

- a) crossing inbred soybean line S52-U3, representative seed of which have been deposited under ATCC Accession No: PTA-5164, with a second soybean plant to yield progeny soybean seed; and
- b) growing said progeny soybean seed to yield said S52-U3-derived soybean plant.

37. (Previously presented) The method for producing a soybean seed according to claim 17, further comprising the step of growing said seed to produce a progeny soybean plant.